BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost :50.00 Lakhs

Name of Work:-Providing and fixing play and gym Equipments at Yelahanka New Town 5th Phase in ward no 02 of Yelahanka sub division.

Sl. No	Description of work	No	Dimensions			qty	Rate	Unit	Amount
			L	B	D				
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil invlving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(Item no19.1,Page no141,PWD SR 2016-17)								
	Desilting of drains	1	30.00	0.45	0.45	6.08			
		1	20.00	0.55	0.45	4.95			
	burden earth cutting	1	30.00	0.75	0.60	13.50			
		1	20.00	0.90	0.60	10.80			
	Site levelling	1	30.00	15.00	0.30	135.00			
	Basic Rate	82.00				170.33	86.92	Cum	14805.00
	6%	4.92							
	Total	86.92							
2	KSRRB M300-53 : Construction of embankment with approved material Gravel/Murrum with all lifts and leads, trasnporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications including cost of gravell/murrum,watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (Page No. 148 & Item No. 19.60)								
	site pit	1	25.00	12.00	0.30	90.00			
						90.00	320.12	Cum	28810.80
	Basic Rate	302.00							
	6%	18.12							
	Total	320.12							
3	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)								
		1	21.50	1.65		35.48			
		1	14.00	1.66		23.17			
		20% Missing Slab				11.73			
	Basic Rate	62.00				46.92	65.72	sqm	3083.00
	6%	3.72							
	Total	65.72							
4	Refixing stone slabs of drains and pointing in CM(1:3)(P.No 25 I.No 5.33)								
		Vide Item No. 3				46.92	80.56	Sqm	3780.00
	Basic Rate	76.00							
	6%	4.56							
	Total	80.56							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick(P.No 25 I.No 5.31.1)								
	sqm	20% Missing Slab				11.73	665.68	sqm	7807.76
	Basic Rate	628.00							

	6%	37.68							
	Total	665.68							
6	Dismantling size stone masanry in clay mortor and stacking the size stone within a radious of 50m and removing the debries to a distance up to 200m etc as per specifications and directions of the engineer incharge of the work.(P.no 265/ Item No. 37.48/ PWD SR 2016-2017)								
	SSM Drain	2	3.20	0.60	0.90	3.46			
	Basic Rate	172.00				3.46	182.32	Cum	630.00
	6%	10.32							
	Total	182.32							
7	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2016-2017								
	L/walls	1	21.70	0.90	0.90	17.58			
		1	24.50	0.90	0.90	19.85			
	S/walls	2	11.00	0.90	0.90	17.82			
	SSM Drain	1	3.20	1.80	0.75	4.32			
	Gymm equipments;-	2	0.60	0.60	0.60	0.43			
		4	0.60	0.60	0.60	0.86			
		8	0.60	0.60	0.60	1.73			
	Playground	8	0.70	0.70	0.60	2.35			
		4	1.00	1.00	0.60	2.40			
		2	0.80	0.80	0.60	0.77			
		6	0.70	0.70	0.60	1.76			
						69.87	299.98	Cum	20960.00
	Basic Rate	283.00							
	6%	16.98							
	Total	299.98						-	
8	Providing and filling of Sand to play area, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. (P. No. 43 / I. No. 7.37 of CSR 2015-16)								
	Children Play ground	1	11.00	11.15	0.30	36.80			
						36.80	1700.00	Cum	62552.00
	Basic Rate	1700.00							
	Total	1700.00							
9	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2016-17)								
	L/walls	1	21.70	0.90	0.15	2.93			
		1	24.50	0.90	0.15	3.31			

	S/walls	2	11.00	0.90	0.15	2.97			
	SSM Drain	1	3.20	1.80	0.15	0.86			
	Flooring	1	11.00	7.00	0.15	11.55			
		1	11.00	2.05	0.15	3.38			
						25.00	5159.02	Cum	128994.00
	Basic Rate	4867.00							
	6%	292.02							
	Total	5159.02							
10	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.25/5.6)								
	1st Footing:-L/walls	1	21.90	0.75	0.30	4.93			
		1	24.70	0.75	0.30	5.56			
	S/walls	2	10.80	0.75	0.30	4.86			
	2nd Footing:-L/walls	1	21.80	0.60	0.45	5.89			
		1	24.60	0.60	0.45	6.64			
	S/walls	2	10.90	0.60	0.45	5.89			
	SSM Drain	2	3.20	0.60	0.90	3.46			
						37.22			
						37.22	4438.22	Cum	165168.00
	Basic Rate	4187.00							
	6%	251.22							
	Total	4438.22							
11	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P.26/5.90)								
	L/walls	2	21.70	0.60	0.45	11.72			
	S/walls	2	11.00	0.60	0.45	5.94			
						17.66			
	Gate portion	1	2.75	0.60	0.30	0.50			
	Poles concreting	26	0.60	0.60	0.45	4.21			
						4.71			
						12.95	5305.30	Cum	68709.00
	Basic Rate	5005.00							
	6%	300.30							
	Total	5305.30							
12	KSRB 15.1.3 Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.122/I.15.3)								
	Inside walls	2	3.20		0.70	4.48			
	L/walls	4	21.70		0.45	39.06			
	S/walls	4	11.00		0.45	19.80			
						63.34	102.82	Sqm	6513.00
	Basic Rate	97.00							

	Area Weightage @	5.82								
	Total	102.82								
13	Providing and laying in positionp lain cement concrete of Mix M20 with opc cement @300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.43 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.5)									
	Coping concrete:-	2	21.70	0.60	0.10	2.60				
	S/walls	2	11.00	0.60	0.10	1.32				
	SSM Drain:-Coping	2	3.20	0.60	0.10	0.38				
	Vent concrete	1	3.20	0.60	0.10	0.19				
	Poles concreting	26	0.60	0.60	0.45	4.21				
	Flooring	1	11.00	7.00	0.10	7.70				
		1	11.00	2.05	0.10	2.26				
	Kerb Stone base:-	2	11.00	0.20	0.10	0.44				
	front	1	21.50	0.20	0.10	0.43				
	Gymm equipments;-	2	0.60	0.60	0.45	0.32				
		4	0.60	0.60	0.45	0.65				
		8	0.60	0.60	0.45	1.30				
	Playground	8	0.70	0.70	0.45	1.76				
		4	1.00	1.00	0.45	1.80				
		2	0.80	0.80	0.45	0.58				
		6	0.70	0.70	0.45	1.32				
	concrete	2	21.50	0.20	0.10	0.86				
		2	14.00	0.20	0.10	0.56				
	Coping concrete	2	21.50	0.20	0.10	0.86				
		1	14.00	0.20	0.10	0.28				
						29.83	5767.46	Cum	172032.00	
	Basic Rate	5441.00								
	6%	326.46								
	Total	5767.46								
14	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (Page No 255 I.No 37.3)								-	
	L/walls	2	21.50		1.90	81.70				
	S/walls	2	11.90		1.90	45.22				
						126.92				
	Gate Portion	1	2.75		1.90	5.23				
						5.23				
						121.70	698.54	Sqm	85009.00	
	Basic Rate	659.00								
	6%	39.54								
	Total	698.54								

15	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.								
	L/walls	6	21.50			129.00			
	S/walls	6	11.90			71.40			
						200.40			
	Gate Portion	3	2.75			8.25			
						8.25			
						192.15	343.44	Mtr	65992.00
	Basic Rate	324.00							
	6%	19.44							
	Total	343.44							
16	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
		26			3.00	78.00			
						78.00	868.14	Rmtr	67715.00
	Basic Rate	819.00							
	6%	49.14							
	Total	868.14							
17	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and weldin (Page No 32, I.No 7.90)								
	Gate	1	2.75		2.15	5.91			
						5.91			
						124.16	82.68	Kgs	10266.00
	Basic Rate	78.00							
	6%	4.68							
	Total	82.68							
18	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification. P.109, I. No.14.62								

	Flooring	1	11.00	7.00		77.00			
		1	11.00	2.05		22.55			
	Deduction for	10	0.60	0.60		3.60			
						95.95	1150.10	Sqm	110352.00
	Basic Rate	1085.00							
	6%	65.10							
	Total	1150.10							
19	Providing and fixing precast solid concrete kerb stones made out of CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete P. No. 25 I. No.5.29.2								
	Kerb stone:-Front	1	21.50			21.50			
	Inside	2	11.00			22.00			
						43.50			
	(1kerb=0.45 mt)			96.67		97.00	385.84	No,s	37426.00
	Basic Rate	364.00							
	Area weightage @ 6%	21.84							
	Total	385.84							
20	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
	Kerb stone:-Front	1	21.50		0.45	9.68			
	Inside	2	11.00		0.45	9.90			
						19.58	27.56	Sqm	539.00
	Basic Rate	26.00							
	6%	1.56							
	Total	27.56							
21	KSRRB M2700- Painting on Concrete Surface KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800							-	
	Kerb stone:-Front	1	21.50		0.45	9.68			
	Inside	2	11.00		0.45	9.90			
						19.58	66.78	Sqm	1307.00
	Basic Rate	63.00							
	6%	3.78							
	Total	66.78							
22	KSRB-15-17.6: Providing and applying painting two coats (excluding priming coat on new wood surface and / war wood faced surface with enamul paint to give an even shade cleaning of surface of all dirt, dust and forign matte, Sand preparing including cost of maerilals, complete as per specification) (P.No 118. I.No 15.60.1)								
	Entry gate	2	2.75		2.15	11.83			

						11.83	89.04	Sqm	1053.00
	Basic Rate	84.00							
	6%	5.04							
	Total	89.04							
23	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.27)								
	flagging coarse wall	2	21.50		0.20	8.60			
		2	14.00		0.20	5.60			
						14.20	993.22	Sqm	14104.00
	Basic Rate	937.00							
	6%	56.22							
	Total	993.22							
24	Providing and fixing granite benches as per design specification and fixing as per the direction of Engineer in charge of work								
		37				37.00			
						37.00	10550.00	No's	390350.00
25	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of works								
		2				2.00			
						2.00	4800.00	No's	9600.00
26	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).								
	Front	1	21.50	1.00		21.50			
	portion	10	1.50	0.60		9.00			
						30.50	2100.00	Sqm	64050.00
27	Supply and fixing of Seated Chest Press. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All products must carry a GS mark on it.. Size_L x W x H): 1955 x 733 x 2058 mm. Weight: 86.6 Kg Safety Area: 5545 x 4470 mm Capacity_2 Persons.								

		1				1.00	230000.00	No,s	230000.00
28	Supply and fixing of Self Weighted Rower. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must carry a GS mark on it.. Size_L x W x H): 1390 x 805 x 1100 mm. Weight: 42.4 Kg Safety Area: 3790 x 3205 mm Capacity_1 Person.								
		1				1.00	165000.00	No,s	165000.00
29	Supply and fixing of Elliptical Cross Trainer. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1267 x 582 x 1764 mm. Weight: 43.5 Kg Safety Area: 4322 x 3632 mm Capacity_1 Person.							-	
		1				1.00	140000.00	No,s	140000.00

30	Supply and Fixing of Rider. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates.. Size_L x W x H): 910 x 655 x 1270 mm. Weight: 29.5 Kg Safety Area: 3310 x 3000 mm Capacity_1 Person.								
		1				1.00	90000.00	No,s	90000.00
31	Supply and Fixing of Bicycle. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. Size_L x W x H): 1000 x 498 x 1290 mm. Weight: 51.5 Kg Safety Area: 3400 x 3498 mm Capacity_1 Persons.								
		1				1.00	125000.00	No,s	125000.00

32	Supply and Fixing of Arm & Pedal Bike. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. Size_L x W x H): 830 x 500 x 1450 mm. Weight: 32 Kg Safety Area: 3830 x 2900 mm Capacity_1 Persons.								
		1				1.00	170000.00	No,s	170000.00
33	Supply and Fixing of Tai Chi Spinners. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1120 x 1150 x 1620 mm. Weight: 39 Kg Safety Area: 3520 x 3550 mm Capacity_3 Persons.								
		1				1.00	115000.00	No,s	115000.00

34	Supply and fixing of HD Health Walker. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates.SizeL x W x H): 1065 x 615 x 1364 mm. Weight: 51Kg. Safety Area: 4090 * 3555mm. Capacity 1 Person								
		1				1.00	140000.00	No,s	140000.00
35	Supply and fixing of HD Waist Twister. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1460 x 1310 x 1150 mm. Weight: 39.1 Kg Safety Area: 4360 x 4510 mm Capacity_3 Persons.								
		1				1.00	130000.00	No,s	130000.00

36	Supply and fixing of HD Squat Pushing. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates.SizeL x W x H): 2270 x 635 x 1640 mm. Weight: 60.2Kg. Safety Area: 5300 * 3685mm. Capacity 2 Persons								
		1				1.00	215000.00	No,s	215000.00
37	Supply and Fixing of HD Sit Up Station. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. . All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1412 x 1366 x 650 mm. Weight: 42.6 Kg Safety Area: 4462 x 4078 mm Capacity_2 Persons.								
		1				1.00	125000.00	Nos	125000.00

38	Supply and Fixing of Multi play System : Upright structural posts of height 2.3 m, 2.6 m and 3.1m are to be schedule Galvanized steel with a 114mm OD {Outer Diameter}.All the posts are to be finished with a baked on powder coat finish. Powder coatings used TGIC Polyester powder. Electro - statically applied polyester powder must have a tough finish with maximum durability. The pre treatment and curing process includes Acid wash > freshwater rinse > iron phosphate rinse > final rinse > rust prevention treatment > seal & dry-off > oven baked electro-static powder application and dual zone curing in the oven > QC Controls > Final finish. Finished products have the following typical characteristics: 0.5mm thickness, oven cured between 191oCand 220oC, to achieve Flexibility, Impact, Salt Spray {Corrosion} Resistance, Hardness, and Adhesion. Specialized connectors such as clamps and couplings are to be cast from aluminium which is pre treated, and cured, with a baked on powder coat finish. Deck of size 1.16 m x 1.16 m and Staircase of size 1.0 m x 0.60 m shall be an all-PATENT welded assembly fabricated from perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pre pressed, punched, and welded, powder coated to 2.2mm thickness or vinyl plastic coated to a thickness of 4mm [optional].Handrail of height 1.88 m and Dia 32 mm shall be an all-patent welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be of tamper resistant stainless steel.								
		1				1.00	815000.00	No,s	815000.00
39	Supply and Fixing of Elephant Rider / Horse Rider / Puppy Dog Rider. Frame made of High density Polyethylene(HDPE) of of size 900mm x 250mm x 575mm and 15mm thickness which meets the GB/T13663-2000 standard. The HDPE used is UVStabilized, heat resistant, Non toxic and anti color fade. Spring of dia 150 mm, thickness of 20 mm and height of 330 mm made of hot rolled spring steel coil of grade GB-1222 or equivalent. Installation: Refer Installation Manual for details.Size (L x W x H): 900 x 250 x 900 mm. Safety Area: 1300 x 650 mm. Weight: Approx 22 Kg Children capacity: 1. This equipment to comply with EN 1176 Safety certification standards.								
		1				1.00	43992.00	No,s	43992.00
40	Supply and Fixing of Bike Rider. The rider consists of HDPE body and seats in the shape of a bike which is of size 828 mm x345 mm x 720 mm and 15mm thickness which meets the GB/T13663-2000 standard. The HDPE used is UV Stabilized, heatresistant, Non toxic and anti color fade. The frame is connected to a Spring of dia 150 mm, thickness of 20 mm and heightof 330 mm made of hot rolled spring steel coil of grade GB-1222 or equivalent. Installation: Refer Installation Manual for details. Size (L x W x H): 828 x 345 x 1050 mm Safety Area: 1300 x 650 mm. Weight: Approx 25 Kg. Children capacity: 1 This equipment to comply with EN 1176 Safety certification standards.								
		1				1.00	43992.00	No,s	43992.00

41	Supply and fixing of Monkey Bar. Upright structural posts of height 2.1 m is to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. The Steel quality is BS1387-1985 technical standard BS1387-1985. All metal components are to be finished with a baked on powder coat finish. Powder coatings used is Akzo Nobel's INTERPON POWDER COATING TECHNOLOGY PAINTS. The finished products have the following typical characteristics: 0.5mm thickness, oven cured between 191oC and 220oC, to achieve Flexibility, Impact, Salt Spray {Corrosion} Resistance, Hardness, and Adhesion. All post caps are to be cast from aluminum which is pretreated, cured and sandblasted, 114mm diameter, with a baked on powder coat finish using AkzoNobel INTERPON paints. The poles are welded on to a base plate made from steel with 114mm inner diameter. Specialized connectors such as clamps and couplings casted from aluminum alloy which is pretreated, cured and sandblasted and finished with a baked on powder coat finish using AkzoNobel INTERPON coatings are used to connect the various components of the playground. Handrail of height 1.3 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating [using AkzoNobel INTERPON paints] finish. The Electro- statically applied polyester powder has a tough finish with maximum durability using AkzoNobel INTERPON paints application, and dual zone cure oven to a thickness of 0.5mm thickness, oven cured between 191oC and 220oC . Bolts, nuts, screws, washers and								
		1				1.00	110121.00	No,s	110121.00
42	Supply and Fixing of Merry Go Round DX. The platform Dia.1.21m, of thickness 2mm and width of 60 mm, with solid precision punched holes and reinforcement rib. After shot blasting, oil and phosphate removal, Zinc Primer Paint is applied at all the welding points using Zinc powder (Interpon PZ660) and Powder coated using Akzo Nobel powder coating.The handrails is made from Dia. 50 mm galvanized steel tubes and wall thickness of 2mm as per GB / T 700-1988. The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The Centre rod for the merry go round is made from 98mm dia, galvanized steel post and connected on to a 160mm dia pipe which is connected to the base plate at the bottom for fixing the foundation. The concealed bearings of grade 6213 and 32213 which conforms to GB-T308-2002 is used to ensure smooth movement of the equipment. The centre rod is connected to the 1.3m dia platform througha base plate of 250mm dia using M16 stainless steel anti theft screws. All complete as per technical specifications of manufacturer. The installation requires the poles to be fitted using Anchor fasteners on a concrete foundation of minimumstrength M-25, cement concrete blocks of required size,as per direction given by engineer incharge, finished below ground level. This equipment to comply with EN 1176 Safety certification standards.								
		1				1.00	94924.00	No,s	94924.00

43	Supply and fixing of A Swing. This equipment comprises of 2 No. A shaped Frame and Toprail made of Dia. 76 mm galvanized steel tubes and wall thickness of 2 mm(The quality of steel meets with the requirement of GB / T 700-1988). The swing chains are made from galvanized steel which is rubberize coated of dia 6mm and length 1400mm. The swing chains are connected to the toprail using a specialized Clamp connector. #6201 bearing is used to connect the clamp & chain ,which is made as the standard GB/T276-2013. Installation: Refer Installation Manual for details. Size (L x W x H): 2585x 500 x 2000 mm. Safety Area: 4900 x 5400 mm. Weight: Approx 45Kg. Children capacity: 2. This equipment to comply with EN 1176 Safety certification standards.									
		1				1.00	66358.00	No.s	66358.00
44	Supply and fixing of 4 Seater See Saw. The Frame and Support Post is made of Dia. 114 mm galvanized steel tubes and wall thickness of 2.5mm(The quality of steel meets with the requirement of GB / T 700-1988). The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The handrail and foot rest is made of Dia. 32 mm steel tubes and wall thickness of 2 mm(The quality of steel meets with the requirement of GB / T 700-1988). The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The seat is made from virgin Korean LLDPE, shaped by Rotational molding and strictly conforms to GB/T 4454-1996. The thickness of plastic is of 6 mm, colorful, UV resistant, anti-static and will not fade easily. Also it is safe and environmental friendly. All accessories such as Nuts and Bolts are made from stainless steel 304#. Installation: Refer Installation Manual for details. Size (L x W x H): 2600x 500 x 855 mm . Weight: Approx 45 Kg. Children capacity: 4. This equipment to comply with EN 1176 Safety certification standards.									
		1				1.00	90280.00	No,s	90280.00
45	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom ....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.7 meters - Top 70mm and bottom 130mm dia									
		2				2.00	12240.00	Nos	24480.00

46	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed									
		2				2.00	4199.00	Nos	8398.00
47	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturerLED Floodlight 90W									
		2				2.00	14646.00	Nos	29292.00
48	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4core 16 sqmm									
		1	100.00			100.00	140.40	Mtrs	14040.00
49	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR									
		1	80.00			80.00	78.00	Mtrs	6240.00
50	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing									
		1	100.00			100.00	10.8	Mtrs	1080.00
51	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.									
		1				1.00	4200.00	Nos	4200.00
52	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 2)1.5 sqmm.									
		1	60.00			60.00	10.75	Mtrs	645.00

53	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm								
		1	10.00			10.00	263.00	Mtrs	2630.00
54	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps								
		2				2.00	234.00	Nos	468.00
55	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f)5-32 Amps DP								
		2				2.00	849.00	Nos	1698.00
56	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG								
		30000				30000.00	0.33	Sqcms	9900.00
57	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 60-70Amps								
		2				2.00	4774.00	Nos	9548.00
58	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.1 Group A Materials.g)16 sqmm								
		1	3.00			3.00	132.00	Mtrs	396.00
59	Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws								
		5000				5000.00	0.22	Sqcms	1100.00

	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
42	KSRB 14.6-1: Providing and fixing of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2015-16)								5800.32
	Pathway portion	1	2 26.00	3.00		78.00			
					Total	78.00	966.72	Sqm	75,404.00
	Basic Rate	912.00				6.00			
	Area weightage @ 6%	54.72							
	Total	966.72							
43	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges. (S.R.of PW,P & IWTD, SR 2016-17								
	For 10k.m	**10x1.3x2=**		**26.00**					
	Loading & unloading			**68.00**					
				94.00					
	A.W 6% =			**5.64**					
	Total =			**99.64**		240.20			
	Qty item No.1 , 2					**339.10**	72.08		17313.00
					Total	339.10	99.64 cum		33,787.92
						4588502.88			4,564,309.37
						367080.23	KRIDL Charges 9%		410,787.84
						45885.03	Third party and QC Charges 0.5%		22,821.55
						2882.05	Miscellaneous		2,081.24
							GRAND TOTAL Rs.		**5,000,000.00**

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2016-17 & approved data rate.
3. This provisions were made in this estimate are necessary and adequate
4. This work cormes under B.B.M.P limits

Asst. Engineer
BBMP

8/3/17

Asst. Executive Engineer Project
Yelahanka Zone, BBMP

Executive Engineer project
Yelahanka Zone
BBMP
8/3/17.

Administrative Approval

Accorded For .....
Head of A/C.....P-3089
CER NO :.....03/16-17 Dt:..18-03-17

E.E. (Project) 14/3

Technical Sanction
Accorded For .....50.00 lakh Rs.
Head of A/C.....P2415
CER NO :.....178 Dt:..20/03/17

TA

CE (YNK)